Int. J. Pres. Ves. & Piping **56** (1993) 421–422

CONTENTS OF VOLUME 56

Number 1

Some Considerations on the Toughness Properties of Ferritic Stainless Steels—A Brief Review 1
A. C. T. M. VAN ZWIETEN (South Africa) & J. H. Bulloch (Ireland)

Estimating Crack Arrest under Accident Conditions 33
A. R. ROSENFIELD (USA)

Probabilistic Techniques for the Assessment of Pressure Tube Hydride Blistering in CANDU Reactor Cores 37
D. V. LEEMANS, M. LÉGER & T. P. BYRNE (Canada)

Torsional Singular Stresses in a Thick-Walled Spherical Shell with a Circumferential Edge Crack 53
Y. SHINDO, Y. MURAKOSHI & H. NOZAKI (Japan)

The Influence of Interstitial Solute Level on the Charpy Toughness Properties of a 40% Cr–Fe Stainless Steel 69
A. C. T. M. VAN ZWIETEN (South Africa) & J. H. Bulloch (Ireland)

Predicting the Arrest of a Long Axial Internal Crack in a Reactor Pressure Vessel 93
E. SMITH (UK)

On the Analysis of Pressure Transients in Pipelines Carrying Compressible Fluids 107
C. V. KAMESWARA RAO & K. ESWARAN (India)

Announcements 131

Number 2

Hydrogen Concentration Distributions in the Wall of Pressure Vessels made of Conventional and V-Modified Steels 133
R. C. BROUWER (The Netherlands)

A Fractographic Assessment of Sulphide Inclusion Distributions and their Influence in Promoting Environmentally Assisted Crack Growth in Ferritic Pressure Vessel Steels 149
J. H. BULLOCH (Ireland)

Development of In-Service Inspection Techniques for Nuclear Power Plants in India 183
B. RAJ, D. K. BHATTACHARYA & P. RODRIGUEZ (India)

Operating Stresses and Stress Corrosion Cracking in Steam Generator Transition Zones (900-MWe PWR) 213
B. FLESCH, P. VIDAL, J. CHABRERIE & J. P. BRUNET (France)

Int. J. Pres. Ves. & Piping (**56**) (1993)—© 1993 Elsevier Science Publishers Ltd, England. Printed in Northern Ireland

Stress Analysis of Ellipsoidal Shell on an Elastic Foundation 229
D. N. PALIWAL, R. GUPTA & A. JAIN (India)

Production of High Pressure Vessels from Austenitic Steel for Cryogenic Engineering based on the Electroslag Casting Technology 243
B. I. MEDOVAR, V. YA. SAENKO & V. A. GRITSUK (Ukraine)

Stress Analysis for Pipes Containing Part-Throughwall Defects 251
A. H. BARAOV (Russia)

Life Extension, Reliability Analysis and Expert System for the Assessment of Fatigue Damage in Structures with Welded Defects—A Study of Applications of High Technology in Reliability Analysis for Pressure Vessel Technology 263
S.-H. DAI (China)

Number 3

Defects in Boiler Evaporator Tubes—A Detailed Case Study Concerning Defect Initiation and Extension Processes 275
J. H. BULLOCH & J. J. HICKEY (Republic of Ireland)

Analysis of a Shallow Spherical Shell on No-Tension Foundation 299
S. K. GHOSH & D. N. PALIWAL (India)

Experimental Observations on Mixed Mode Fatigue Crack Propagation 319
V. SRINIVAS & P. VASUDEVAN (India)

An Exact Elasto–Plastic Solution for a Closed-End Thick-Walled Cylinder of Elastic Linear-Hardening Material with Large Strains 331
G. XIN-LIN (Canada)

Modal Analysis of Shell of Revolution on Elastic Foundation 351
M. R. ESLAMI & M. R. AYATOLLAHI (Iran)

Crack Arrest in Modern Steels and their Weldments—Comparison Between Small and Large Scale Experiments 369
C. S. WIESNER, B. HAYES & A. A. WILLOUGHBY (UK)

On Relating the Reference Stress, Limit Load and the ASME Stress Classification Concepts 387
R. SESHADRI (Canada) & D. L. MARRIOTT (USA)

Study of the Influence of Mixed Mode Overload on Mode I Fatigue Crack Propagation 409
V. SRINIVAS & P. VASUDEVAN (India)

Announcements 419